CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.05/NVP/CEMENT/2014-15

Date: 01.04.2014

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
AGENCY	:	**Mr. Ningana Gowda V. Patil**, Contractor, Bangalore.
NAME OF THE WORK	:	Improvements to Road and Drains at Near Munikrishna House Roads Thirumenahalli in Ward No.05, Byatarayanapura Sub Division, BBMP, Bangalore.
REFERENCE	:	EE/BTP/BBMP/E-PMT/519/2013-14 Dated: 24.02.2014
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4)	29.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5)	145 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	475 Minutes	Not More than 600 Minutes
3	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm

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NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.05/NVP/SAND/2014-15 : 01.04.2014

TEST REPORT ON FINE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : **Mr. Ningana Gowda V. Patil,** Contractor, Bangalore.

Name of Work : Improvements to Road and Drains at Near Munikrishna House Roads Thirumenahalli in Ward No.05, Byatarayanapura Sub Division, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-PMT/519/2013-14 Dated: 24.02.2014

Date of Testing : 01.04.2014

Material : Sand Total Wt. of Aggregates in gms **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	105	5.25	5.25	94.8	90-100
2.36	216	10.80	16.05	84.0	75-100
1.18	523	26.15	42.20	57.8	55-90
600 Micron	428	21.40	63.60	36.4	35-59
300 Micron	483	24.15	87.75	12.3	8-30
150 Micron	204	10.20	97.95	2.1	0-10

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Job No.: CTCE/BBMP/W.No.05/NVP/AGG/2014-15 : 01.04.2014

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : **Mr. Ningana Gowda V. Patil,** Contractor, Bangalore.

Name of Work : Improvements to Road and Drains at Near Munikrishna House Roads Thirumenahalli in Ward No.05, Byatarayanapura Sub Division, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-PMT/519/2013-14 Dated: 24.02.2014

Date of Testing : 01.04.2014

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **26000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	1025	3.94	3.94	96.06	95-100
20	15740	60.54	64.48	35.52	30-70
10	6265	24.10	88.58	11.42	10-35
4.75	2380	9.15	97.73	2.27	0-5

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Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.05/NVP/STEEL/2014-15 19.04.2014

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	:	**Mr. Ningana Gowda V. Patil**, Contractor, Bangalore.
Name of the work	:	Improvements to Road and Drains at Near Munikrishna House Roads Thirumenahalli in Ward No.05, Byatarayanapura Sub Division, BBMP, Bangalore.
Reference	:	EE/BTP/BBMP/E-PMT/519/2013-14 Dated: 24.02.2014
Date of Test	:	19.04.2014
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	10	0.62	513	556	13.30	O.K	O.K

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Job No.: CTCE/BBMP/W.No.05/NVP/STEEL/2014-15 19.04.2014

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	:	**Mr. Ningana Gowda V. Patil**, Contractor, Bangalore.
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Date of Test	:	19.04.2014
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	12	0.89	515	558	13.65	O.K	O.K

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Job No.: CTCE/BBMP/W.No.05/NVP/CUBE/2014-15

22.05.2014

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	: **Mr. Ningana Gowda V. Patil,** Contractor, Bangalore.
Name of the work	: Improvements to Road and Drains at Near Munikrishna House Roads Thirumenahalli in Ward No.05, Byatarayanapura Sub Division, BBMP, Bangalore.
Reference	: EE/BTP/BBMP/E-PMT/519/2013-14 Dated: 24.02.2014
Sample ID	: RCC Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.04.2014	22.05.2014	8.216	495.7	22.03
2	24.04.2014	22.05.2014	8.378	506.5	22.51
3	24.04.2014	22.05.2014	8.452	517.8	23.01

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24.05.2014

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	: **Mr. Ningana Gowda V. Patil,** Contractor, Bangalore.
Name of the work	: Improvements to Road and Drains at Near Munikrishna House Roads Thirumenahalli in Ward No.05, Byatarayanapura Sub Division, BBMP, Bangalore.
Reference	: EE/BTP/BBMP/E-PMT/519/2013-14 Dated: 24.02.2014
Sample ID	: Road Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.04.2014	24.05.2014	8.356	511.4	22.73
2	26.04.2014	24.05.2014	8.279	598.6	26.60
3	26.04.2014	24.05.2014	8.163	487.3	21.66

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